AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A process for preparing D-pantothenic acid comprising

- a. culturing a *Coryneform* bacteria comprising an attenuated poxB gene in a medium suitable for producing D-pantothenoic acid; and
- b. collecting the D-pantothenic acid produced.

Claim 2 (Original): The process of Claim 1, wherein said poxB gene comprises the nucleotide sequence of SEQ ID NO:12.

Claim 3 (Original): The process of Claim 1, wherein said poxB gene comprises SEQ ID NO:6.

Claim 4 (Original): The process of Claim 1, wherein said poxB gene comprises SEQ ID NO:7.

Claim 5 (Original): The process of Claim 1, wherein said poxB gene comprises SEQ ID NO:4.

Claim 6 (Original): The process of Claim 1, wherein said D-pantothenic acid is concentrated prior to said collecting.

Claim 7 (Original): The process of Claim 1, wherein said D-pantothenic acid is concentrated after said collecting.

Claim 8 (Original): The process of Claim 1, wherein said poxB gene comprises a nucleotide sequence which hybridizes under stringent conditions to the nucleotide sequence of SEQ ID NO:1 and which encodes a PoxB protein having attenuated PoxB activity, wherein said stringent conditions comprise washing in 5X SSC at a temperature from 50 to 68°C.

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Claim 9 (Original): The process of Claim 1, wherein said poxB gene is eliminated in said *Coryneform* bacteria.

Claim 10 (Original): The process of Claim 1, wherein said *Coryneform* bacteria is *Coryneform glutamicum*.

Claim 11 (Original): The process of Claim 1, wherein said Coryneform bacterium is selected from the group consisting of Coryneformbacterium acteoglutamicum,

Coryneformbacterium acetoacidophilum, Coryneformbacterium thermoaminogenes,

Brevibacterium flavum, Brevibacterium lactofermentum, and Brevibacterium divaricatum.

Claim 12 (Original): The process of Claim 1, wherein said Coryneform bacterium

further comprises at least one gene whose expression is enhanced, wherein said gene is selected from the group consisting of panB, panC, and ilvD.

Claim 13 (Original): Escherichia coli DSM 13114.

Claim 14 (Currently Amended): A process for producing D-pantothnic acid comprising:

- a. transforming a *Coryneform* bacteria with a vector comprising the polynucleotide sequence of SEQ ID NO:3;
- b. selecting Coryneform bacteria that have attenuated poxB expression;
- c. culturing said selected *Coryneform* bacteria in a medium suitable <u>for</u>
 producing D-pantothenoic acid; and
- d. collecting the D-pantothenic acid produced.

Claim 15 (Original): The process of Claim 14, wherein said poxB gene comprises a nucleotide sequence which hybridizes under stringent conditions to the nucleotide sequence

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of SEQ ID NO:1 and which encodes a PoxB protein having attenuated PoxB activity, wherein said stringent conditions comprise washing in 5X SSC at a temperature from 50 to 68°C.

Claim 16 (Original): The process of Claim 14, wherein said *Coryneform* bacteria is *Coryneform glutamicum*.

Claim 17 (Original): The process of Claim 14, wherein said *Coryneform* bacterium is selected from the group consisting of *Coryneformbacterium acteoglutamicum*,

Coryneformbacterium acetoacidophilum, Coryneformbacterium thermoaminogenes,

Brevibacterium flavum, Brevibacterium lactofermentum, and Brevibacterium divaricatum.

Claim 18 (Original): The process of Claim 14, wherein said *Coryneform* bacterium further comprises at least one gene whose expression is enhanced, wherein said gene is selected from the group consisting of panB, panC, and ilvD.

Claim 19 (Original): A Coryneform bacteria comprising an attenuated poxB gene.

Claim 20 (Original): The Coryneform bacteria of Claim 19, which is a Corynebacterium glutamicum.

Claim 21 (Original): The *Coryneform* bacteria of Claim 19, wherein said attenuated poxB gene comprises the nucleotide sequence of SEQ ID NO:12.

Claim 22 (Currently Amended): A process for producing D-pantothnic acid comprising:

- a. transforming a *Coryneform* bacteria with a vector comprising the polynucleotide sequences of SEQ ID NO:6 and SEQ ID NO:7;
- b. selecting Coryneform bacteria that have attenuated poxB expression;

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- c. culturing said selected *Coryneform* bacteria in a medium suitable <u>for</u>
 producing D-pantothenoic acid; and
- d. collecting the D-pantothenic acid produced.

Claim 23 (Original): The process of Claim 22, wherein said poxB gene comprises a nucleotide sequence which hybridizes under stringent conditions to the nucleotide sequence of SEQ ID NO:1 and which encodes a PoxB protein having attenuated PoxB activity, wherein said stringent conditions comprise washing in 5X SSC at a temperature from 50 to 68°C.

Claim 24 (Original): The process of Claim 22, wherein a sequence comprising SEQ ID NO:1 is deleted in the attenuated poxB gene.

Claim 25 (Original): The process of Claim 22, wherein said *Coryneform* bacteria is *Coryneform glutamicum*.

Claim 26 (Original): The process of Claim 22, wherein said *Coryneform* bacterium is selected from the group consisting of *Coryneformbacterium acteoglutamicum*,

 $Coryne form bacterium\ acetoacido philum,\ Coryne form bacterium\ thermoamino genes,$

Brevibacterium flavum, Brevibacterium lactofermentum, and Brevibacterium divaricatum.

Claim 27 (Original): The process of Claim 22, wherein said *Coryneform* bacterium further comprises at least one gene whose expression is enhanced, wherein said gene is selected from the group consisting of panB, panC, and ilvD.

Claim 28 (Original): An isolated polynucleotide comprising the nucleotide sequence of SEQ ID NO:6.

Claim 29 (Original): An isolated polynucleotide comprising the nucleotide sequence of SEQ ID NO:7.

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Claim 30 (Original): An isolated polynucleotide comprising the nucleotide sequence of SEQ ID NO:12.

Claim 31 (New): The process of Claim 1, wherein said *Coryneform* bacterium further comprises at least one gene whose expression is enhanced, wherein said gene is selected from the group consisting of panB, panC, and panD.